PB-217 908

TABULATION OF BOTTOM ORGANISMS OBSERVED AT SAMPLING STATIONS DURING THE BIOLOGICAL SURVEY BETWEEN DANVILLE, PENNSYLVANIA, AND CONOWINGO, MARYLAND. APPENDIX TO BIOLOGICAL SURVEY OF THE SUSQUEHANNA RIVER AND ITS TRIBUTARIES BETWEEN DANVILLE, PENNSYLVANIA, AND CONOWINGO, MARYLAND

Federal Water Pollution Control Administration
Charlottesville, Virginia

November 1966

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TABULATION OF BOTTOM ORGANISMS OBSERVED AT SAMPLING STATIONS DURING THE BIOLOGICAL SURVEY BETWEEN DANVILLE, PENNSYLVANIA, AND CONOWINGO, MARYLAND

APPENDIX TO

Biological Survey of the
Susquehanna River and Its
Tributaries Between
Danville, Pennsylvania
and
Conowingo, Maryland

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November 1966

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EAST BANK SUSQUEHANNA RIVER AND TRIBUTARIES

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Susquehanna River at Danville (E. B.)	SUQ-135	Oligochaeta		
		Tubificidae		
		Tubifex sp.	2	13.33
		Coleoptera		
		Stenelmis sp.	1	6.67
		Trichoptera		
		Hydropsyche sp.	10	66.67
		Diptera		
		Tendipedidae		
		Cryptochironomus sp.	2	13.33
		Total Number of Organisms	15	
Shamokin Creek [1]	SHM-022	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	20	11.77
		Oligochaeta		
		Naididae		
		Nais sp.	1	0.59
		Ephemeroptera		
		Isonychia sp.	1	0.59
		Stenonema sp.	8	4.70
		Neuroptera		
		Chauliodes sp.	1	0.59
		Coleoptera		
		Gyrinus sp.	1	0.59
		Stenelmis sp.	1	0.59
		Trichoptera		
		Cheumatopsyche sp.	1	0.59
		Hydropsyche sp.	130	76.47

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Shamokin Creek (Cont'd)	SHM-022	Diptera		
		Tipulidae		
		Helius sp.	3	1.76
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	0.59
		Gyraulus sp.	1	0.59
		Physa sp.	1	0.59
		Total Number of Organisms	170	
Shamokin Creek	SHM-019	Diptera		
		Tendipedidae		
		Tendipes sp.	4	100.00
		Total Number of Organisms	4	
Buddys Run	BUD-000	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	350	70.00
		Oligochaeta		
		Naididae		
		Nais sp.	1	0.20
		Tubificidae		
		Tubifex sp.	135	27.00
		Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	4	0.80
		Trichoptera		
		Hydropsyche sp.	3	0.60

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Buddys Run (Cont'd)	BUD-000	Diptera		
		Tendipedidae		
		Pentaneura sp.	5	1.00
		Simuliidae		
		Simulium sp.	1	0.20
		Mollusca		
		Gastropoda		
		Pulmonata		
		Physa sp.	1	0.20
		Total Number of Organisms	500	
Shamokin Creek	SHM-000	Diptera		
		Tendipedidae		
		Cryptochironomus sp.	4	100.00
		Total Number of Organisms	4	
Susquehanna River at Hummels Wharf (E. B.)	SUQ-120	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	8	3.32
		Oligochaeta		
		Naididae		
		Nais sp.	16	6.64
		Coleoptera		
		Stenelmis sp.	8	3.32
		Trichoptera		
		Hydropsyche sp.	168	69.71
		Diptera		
		Tendipedidae		
		Polypedilum sp.	40	16.60
		Tendipes sp.	1	0.41
		Total Number of Organisms	241	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Mahanoy Creek	MAH-009	Oligochaeta		
		Tubificidae		
		Tubifex sp.	1	25.00
		Neuroptera		
		Sialis sp.	1	25.00
		Coleoptera		
		Stenelmis sp.	1	25.00
		Diptera		
		Tabanidae		
		Chrysops sp.	1	25.00
		Total Number of Organisms	4	
Schwaben Creek	SCH-000	Oligochaeta		
		Tubificidae		
		Tubifex sp.	10	8.26
		Ephemeroptera		
		Choroterpes sp.	1	0.83
		Paraleptophlebia sp.	1	0.83
		Stenonema sp.	4	3.30
		Odonata		
		Anisoptera		
		Boyeria sp.	1	0.83
		Neuroptera		
		Chauliodes sp.	5	4.13
		Coleoptera		
		Stenelmis sp.	7	5.79
		Trichoptera		
		Cheumatopsyche sp.	2	1.65
		Hydropsyche sp.	87	71.90
		Diptera		
		Tendipedidae		
		Cryptochironomus sp.	2	1.65
		Simuliidae		
		Simulium sp.	x	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Schwaben Creek (Cont'd)	SCH-000	Mollusca		
		Gastropoda		
		Pulmonata		
		Physa sp.	1	0.83
		Total Number of Organisms	121	
Mahanoy Creek	MAH-001	Odonata		
		Anisoptera		
		Ophiogomphus sp.	1	33.00
		Zygoptera		
		Agrion sp.	1	33.00
		Neuroptera		
		Sialis sp.	1	33.00
		Total Number of Organisms	3	
Susquehanna River at McKee Half Falls (E. B.)	SUQ-106	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	0.28
		Odonata		
		Zygoptera		
		Argia sp.	1	0.28
		Plecoptera		
		Acroneuria sp.	2	0.57
		Coleoptera		
		Stenelmis sp.	4	1.13
		Trichoptera		
		Hydropsyche sp.	312	88.39
		Diptera		
		Tendipedidae		
		Polypedilum sp.	32	9.07
		Simuliidae		
		Simulium sp.	1	0.28
		Total Number of Organisms	353	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Mahantango Creek	MAN-018	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	0.47
		Ephemeroptera		
		Isonychia sp.	2	0.94
		Stenonema sp.	28	13.14
		Neuroptera		
		Corydalus sp.	1	0.47
		Sialis sp.	2	0.94
		Coleoptera		
		Psephenus sp.	1	0.47
		Trichoptera		
		Cheumatopsyche sp.	6	2.81
		Hydropsyche sp.	152	71.38
		Neophylax sp.	16	7.50
		Diptera		
		Tendipedidae		
		Cryptochironomus sp.	1	0.47
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	0.47
		Gyraulus sp.	1	0.47
		Physa sp.	1	0.47
		Total Number of Organisms	213	
Pine Creek	PNE-019	Ephemeroptera		
		Baetis sp.	1	25.00
		Stenonema sp.	1	25.00
		Plecoptera		
		Leuctra sp.	1	25.00
		Trichoptera		
		Limnephilus sp.	1	25.00
		Total Number of Organisms	4	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Deep Creek	DCR-009	Ephemeroptera		
		Stenonema sp.	1	20.00
		Plecoptera		
		Neophasganophora sp.	1	20.00
		Trichoptera		
		Hydropsyche sp.	1	20.00
		Diptera		
		Diamesinae	1	20.00
		Tendipedidae		
		Polypedilum sp.	1	20.00
		Total Number of Organisms	5	
Pine Creek	PNE-001	Neuroptera		
		Sialis sp.	1	100.00
		Total Number of Organisms	1	
Mahantango Creek	MAN-010	Neuroptera		
		Sialis sp.	1	50.00
		Diptera		
		Tabanidae		
		Chrysops sp.	1	50.00
		Total Number of Organisms	2	
Mahantango Creek	MAN-000	Odonata		
		Anisoptera		
		Cordulegaster sp.	1	50.00
		Neuroptera		
		Sialis sp.	1	50.00
		Total Number of Organisms	2	
Wiconisco Creek	WIS-038	No organisms found		

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Wiconisco Creek (Cont'd)	WIS-000	Ephemeroptera		
		Stenonema sp.	1	16.67
		Trichoptera		
		Hydropsyche sp.	1	16.67
		Macronemum sp.	1	16.67
		Neophylax sp.	1	16.67
		Diptera		
		Tendipedidae		
		Metriocnemus sp.	1	16.67
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	16.67
		Total Number of Organisms	6	
Susquehanna River at New Buffalo (E. B.)	SUQ-089	Crustacea		
		Malacostraca		
		Amphipoda		
		Gammarus sp.	1	0.24
		Ephemeroptera		
		Baetis sp.	1	0.24
		Stenonema sp.	1	0.24
		Odonata		
		Zygoptera		
		Argia sp.	2	0.47
		Neuroptera		
		Corydalus sp.	2	0.47
		Trichoptera		
		Hydropsyche sp.	401	95.03
		Diptera		
		Tendipedidae		
		Polypedilum sp.	8	2.90
		Simuliidae		
		Simulium sp.	2	0.47

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Susquehanna River at New Buffalo (E. B.) (Cont'd)	SUQ-089	Mollusca		
		Gastropoda		
		Prosobranchia		
		Pleurocerca sp.	1	0.24
		Pulmonata		
		Ferrissia sp.	1	0.24
		Physa sp.	1	0.24
		Pelecypoda		
		Elliptio sp.	1	0.24
		Total Number of Organisms	422	
Susquehanna River above Harrisburg (E. B.)	SUQ-075	Ephemeroptera		
		Stenonema sp.	1	11.11
		Trichoptera		
		Hydropsyche sp.	1	11.11
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Goniobasis sp.	4	44.45
		Pulmonata		
		Physa sp.	1	11.11
		Pelecypoda		
		Elliptio sp.	1	11.11
		Sphaerium sp.	1	11.11
		Total Number of Organisms		
Susquehanna River at Pennsylvania Turnpike Bridge (E. B.)	SUQ-064	Ephemeroptera		
		Isonychia sp.	1	2.86
		Stenonema sp.	3	8.57
		Neuroptera		
		Corydalus sp.	1	2.86
		Trichoptera		
		Hydropsyche sp.	24	68.57

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Susquehanna River at Pennsylvania Turnpike Bridge (E. B.) (Cont'd)	SUQ-064	Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	3	8.56
		Pleurocerca sp.	1	2.86
		Pulmonata		
		Ferrissia sp.	1	2.86
		Pelecypoda		
		Sphaerium sp.	1	2.86
		Total Number of Organisms	35	
Swatara Creek	SWA-066	Neuroptera		
		Sialis sp.	1	50.00
		Diptera		
		Tendipedidae		
		Metriocnemus sp.	1	50.00
		Total Number of Organisms	2	
Swatara Creek	SWA-055	Ephemeroptera		
		Stenonema sp.	1	4.00
		Coleoptera		
		Dineutus sp.	1	4.00
		Trichoptera		
		Hydropsyche sp.	16	64.00
		Diptera		
		Tendipedidae		
		Brillia sp.	5	20.00
		Mollusca		
		Gastropoda		
		Pulmonata		
		Gyraulus sp.	1	4.00
		Physa sp.	1	4.00
		Total Number of Organisms	25	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Swatara Creek	SWA-054	No organisms present		
Swatara Creek	SWA-038	Odonata		
		Zygoptera		
		Argia sp.	1	33.33
		Coleoptera		
		Haliplus sp.	1	33.33
		Trichoptera		
		Hydropsyche sp.	1	33.33
		Total Number of Organisms	3	
Little Swatara Creek	LSW-011	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	4	6.45
		Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	1	1.61
		Ephemeroptera		
		Stenonema sp.	18	29.03
		Coleoptera		
		Psephenus sp.	13	20.96
		Stenelmis sp.	6	9.69
		Trichoptera		
		Hydropsyche sp.	16	25.81
		Diptera		
		Diamesinae	1	1.61
		Tendipedidae		
		Polypedilum sp.	1	1.61

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Little Swatara Creek (Cont'd)	LSW-011	Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	1.61
		Physa sp.	1	1.61
		Total Number of Organisms	62	
Little Swatara Creek	LSW-001	Oligochaeta		
		Tubificidae		
		Tubifex sp.	1	0.97
		Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	1	0.97
		Ephemeroptera		
		Heptagenia sp	1	0.97
		Coleoptera		
		Psephenus sp.	2	1.94
		Stenelmis sp.	7	6.80
		Trichoptera		
		Hydropsyche sp.	82	79.62
		Neophylax sp.	3	2.91
		Diptera		
		Tendipedidae		
		Metriocnemus sp.	1	0.97
		Polypedilum sp.	1	0.97
		Tipulidae		
		Antocha sp.	1	0.97

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Little Swatara Creek (Cont'd)	LSW-001	Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	1	0.97
		Pulmonata		
		Ferrissia sp.	1	0.97
		Pelecypoda		
		Elliptio sp.	1	0.97
		Total Number of Organisms	103	
Swatara Creek	SWA-014	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	16	8.84
		Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	1	0.55
		Odonata		
		Zygoptera		
		Ischnura sp.	1	0.55
		Diptera		
		Diamesinae	128	70.72
		Simuliidae		
		Simulium sp.	1	0.55
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Pleurocerca sp.	1	0.55
		Pulmonata		
		Ferrissia sp.	32	17.69
		Physa sp.	1	0.55
		Total Number of Organisms	181	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Swatara Creek	SWA-002	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	33	4.57
		Oligochaeta		
		Tubificidae		
		Tubifex sp.	1	0.14
		Ephemeroptera		
		Stenonema sp.	3	0.42
		Neuroptera		
		Sisyra sp.	1	0.14
		Trichoptera		
		Hydropsyche sp.	1	0.14
		Diptera		
		Tendipedidae		
		Cryptochironomus sp.	25	3.46
		Simuliidae		
		Simulium sp.	600	83.10
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	1	0.14
		Pleurocerca sp.	55	7.61
		Pulmonata		
		Physa sp.	1	0.14
		Pelecypoda		
		Sphaerium sp.	1	0.14
		Total Number of Organisms	722	
East Conewago Creek	CNE-006	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	6	3.53

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
East Conewago Creek (Cont'd)	CNE-006	Crustacea		
		Malacostraca		
		Amphipoda		
		Gammarus sp.	x	
		Ephemeroptera		
		Heptagenia sp.	43	25.27
		Isonychia sp.	5	2.94
		Stenonema sp.	46	27.08
		Odonata		
		Zygoptera		
		Argia sp.	x	
		Neuroptera		
		Chauliodes sp.	x	
		Coleoptera		
		Psephenus sp.	x	
		Stenelmis sp.	12	7.06
		Trichoptera		
		Hydropsyche sp.	55	32.35
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	0.59
		Physa sp.	1	0.59
		Pelecypoda		
		Sphaerium sp.	1	0.59
		Total Number of Organisms	170	
Susquehanna River above Columbia (E. B.)	SUQ-045	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	0.68
		Oligochaeta		
		Naididae		
		Nais sp.	1	0.68

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Susquehanna River above Columbia (E. B.) (Cont'd)	SUQ-045	Crustacea		
		Malacostraca		
		Amphipoda		
		Gammarus sp.	4	2.70
		Ephemeroptera		
		Stenonema sp.	73	49.32
		Tricorythodes sp.	1	0.68
		Trichoptera		
		Hydropsyche sp.	1	0.68
		Diptera		
		Tendipedidae		
		Tendipes sp.	58	39.18
		Heleidae		
		Dasyhelia sp.	1	0.68
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	8	5.40
		Total Number of Organisms	148	
Chickies Creek	CHI-001	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	21	4.38
		Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	x	
		Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	x	
		Ephemeroptera		
		Stenonema sp.	52	10.85

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Chickies Creek (Cont'd)	CHI-001	Coleoptera		
		Stenelmis sp.	125	26.10
		Trichoptera		
		Hydropsyche sp.	156	32.57
		Diptera		
		Diamesinae	125	26.10
		Tipulidae		
		Antocha sp.	x	
		Mollusca		
		Gastropoda		
		Pelecypoda		
		Sphaerium sp.	x	
		Total Number of Organisms	479	
Conestoga Creek	CON-031	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	6.67
		Oligochaeta		
		Tubificidae		
		Tubifex sp.	1	6.67
		Hirudinea		
		Erpobdella sp.	1	6.67
		Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	1	6.67
		Amphipoda		
		Gammarus sp.	1	6.67
		Ephemeroptera		
		Heptagenia sp.	1	6.67
		Stenonema sp.	1	6.67
		Trichoptera		
		Hydropsyche sp.	1	6.67

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Conestoga Creek (Cont'd)	CON-031	Diptera		
		Diamesinae	1	6.67
		Tendipedidae		
		Cryptochironomus sp.	1	6.67
		Simuliidae		
		Simulium sp.	1	6.67
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Pleurocerca sp.	1	6.67
		Pulmonata		
		Ferrissia sp.	1	6.67
		Physa sp.	1	6.67
		Pelecypoda		
		Sphaerium sp.	1	6.67
		Total Number of Organisms	15	
Cocalico Creek	COL-001	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	0.72
		Hirudinea		
		Erpobdella sp.	1	0.72
		Crustacea		
		Malacostraca		
		Amphipoda		
		Hyalella sp.	1	0.72
		Decapoda		
		Cambarus sp.	1	0.72
		Ephemeroptera		
		Isonychia sp.	4	2.90
		Coleoptera		
		Psephenus sp.	1	0.72
		Stenelmis sp.	58	42.03

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Cocalico Creek (Cont'd)	COL-001	Trichoptera		
		Hydropsyche sp.	44	31.89
		Diptera		
		Tendipedidae		
		Polypedilum sp.	25	18.12
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	0.72
		Pelecypoda		
		Elliptio sp.	1	0.72
		Total Number of Organisms	138	
Conestoga Creek	CON-024	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	0.76
		Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	1	0.76
		Ephemeroptera		
		Stenonema sp.	3	2.27
		Coleoptera		
		Stenelmis sp.	20	15.15
		Trichoptera		
		Hydropsyche sp.	44	33.33
		Diptera		
		Tendipedidae		
		Metriocnemus sp.	39	29.55

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Conestoga Creek (Cont'd)	CON-024	Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	23	17.42
		Pelecypoda		
		Sphaerium sp.	1	0.76
		Total Number of Organisms	132	
Conestoga Creek	CON-013	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	1.20
		Diptera		
		Tendipedidae		
		Tendipes sp.	81	97.60
		Mollusca		
		Gastropoda		
		Pulmonata		
		Gyraulus sp.	1	1.20
		Total Number of Organisms	83	
Conestoga Creek	CON-012	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	0.36
		Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	3	1.07
		Tubifex sp.	113	40.51
		Hirudinea		
		Erpobdella sp.	20	7.17

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Conestoga Creek (Cont'd)	CON-012	Crustacea		
		Malacostraca		
		Amphipoda		
		Gammarus sp.	1	0.36
		Decapoda		
		Cambarus sp.	1	0.36
		Ephemeroptera		
		Stenonema sp.	9	3.23
		Coleoptera		
		Psephenus sp.	8	2.86
		Stenelmis sp.	9	3.23
		Trichoptera		
		Hydropsyche sp.	75	26.88
		Diptera		
		Diamesinae	1	0.36
		Tendipedidae		
		Pentaneura sp.	16	5.73
		Polypedilum sp.	1	0.36
		Simuliidae		
		Simulium sp.	1	0.36
		Tipulidae		
		Phalacrocerca sp.	3	1.07
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	13	4.66
		Physa sp.	4	1.43
		Total Number of Organisms	279	
Conestoga Creek	CON-001	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	0.22

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Conestoga Creek (Cont'd)	CON-001	Oligochaeta		
		Tubificidae		
		Tubifex sp.	3	0.65
		Crustacea		
		Malacostraca		
		Amphipoda		
		Hyalella sp.	1	0.22
		Decapoda		
		Cambarus sp.	1	0.22
		Ephemeroptera		
		Baetis sp.	22	4.78
		Stenonema sp.	1	0.22
		Odonata		
		Zygoptera		
		Enallagma sp.	1	0.22
		Coleoptera		
		Stenelmis sp.	5	1.09
		Trichoptera		
		Hydropsyche sp.	82	17.82
		Diptera		
		Tendipedidae		
		Polypedilum sp.	333	72.39
		Simuliidae		
		Simulium sp.	1	0.22
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	5	1.09
		Physa sp.	1	0.22
		Pelecypoda		
		Sphaerium sp.	3	0.65
		Total Number of Organisms	460	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Pequea Creek	PEQ-006	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	0.75
		Oligochaeta		
		Tubificidae		
		Tubifex sp.	17	12.68
		Ephemeroptera		
		Isonychia sp.	38	28.35
		Stenonema sp.	1	0.75
		Coleoptera		
		Stenelmis sp.	1	0.75
		Trichoptera		
		Hydropsyche sp.	43	32.09
		Diptera		
		Tendipedidae		
		Microtendipes sp.	32	23.58
		Simuliidae		
		Simulium sp.	1	0.75
		Total Number of Organisms	134	
Pequea Creek	PEQ-001	Crustacea		
		Malacostraca		
		Amphipoda		
		Hyalella sp.	1	1.09
		Decapoda		
		Cambarus sp.	1	1.09
		Ephemeroptera		
		Baetis sp.	5	5.43
		Stenonema sp.	1	1.09
		Trichoptera		
		Hydropsyche sp.	31	33.70

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Pequea Creek (Cont'd)	PEQ-001	Diptera		
		Tendipedidae		
		Polypedilum sp.	53	57.61
		Total Number of Organisms	92	

WEST BANK SUSQUEHANNA RIVER AND TRIBUTARIES

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Susquehanna River at Danville (W. B.)	SUQ-135	Oligochaeta		
		Tubificidae		
		Tubifex sp.	2	13.33
		Coleoptera		
		Stenelmis sp.	1	6.67
		Trichoptera		
		Hydropsyche sp.	10	66.67
		Diptera		
		Tendipedidae		
		Cryptochironomus sp.	2	13.33
		Total Number of Organisms	15	
West Branch Susquehanna River at Lewisburg (E. B.)	WBS-008	No organisms present		
West Branch Susquehanna River at Lewisburg (W. B.)	WBS-008	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	4	8.17
		Oligochaeta		
		Tubificidae		
		Tubifex sp.	1	2.04
		Crustacea		
		Malacostraca		
		Amphipoda		
		Gammarus sp.	1	2.04
		Ephemeroptera		
		Stenonema sp.	5	10.20
		Odonata		
		Zygoptera		
		Enallagma sp.	x	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
West Branch Susquehanna River at Lewisburg (W. B.) (Cont'd)	WBS-008	Neuroptera		
		Corydalus sp.	1	2.04
		Coleoptera		
		Peltodytes sp.	2	4.08
		Psephenus sp.	3	6.12
		Stenelmis sp.	x	
		Trichoptera		
		Hydropsyche sp.	32	65.31
		Limnephilus sp.	x	
		Diptera		
		Tendipedidae		
		Polypedilum sp.	x	
		Total Number of Organisms	49	
Susquehanna River at Hummels Wharf (W. B.)	SUQ-120	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	64	5.19
		Coleoptera		
		Stenelmis sp.	8	0.65
		Trichoptera		
		Cheumatopsyche sp.	32	2.60
		Hydropsyche sp.	1,120	90.91
		Diptera		
		Tendipedidae		
		Tendipes sp.	8	0.65
		Total Number of Organisms	1,232	
Penns Creek	PEN-006	Ephemeroptera		
		Heptagenia sp.	1	2.50
		Isonychia sp.	1	2.50
		Stenonema sp.	8	20.00

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Penns Creek (Cont'd)	PEN-006	Odonata		
		Anisoptera		
		Gomphus sp.	1	2.50
		Zygoptera		
		Enallagma sp.	1	2.50
		Plecoptera		
		Acroneuria sp.	1	2.50
		Neuroptera		
		Corydalus sp.	1	2.50
		Sialis sp.	1	2.50
		Trichoptera		
		Brachycentrus sp.	1	2.50
		Chimarra sp.	1	2.50
		Hydropsyche sp.	15	37.50
		Limnephilus sp.	1	2.50
		Phryganea sp.	1	2.50
		Diptera		
		Tendipedidae		
		Cryptochironomus sp.	1	2.50
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	1	2.50
		Pleurocerca sp.	1	2.50
		Pulmonata		
		Ferrissia sp.	3	7.50
		Total Number of Organisms	40	
Middle Creek	MID-001	Hirudinea		
		Glossiphonia sp.	1	0.23

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Middle Creek (Cont'd)	MID-001	Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	2	0.47
		Amphipoda		
		Hyalella sp.	1	0.23
		Ephemeroptera		
		Stenonema sp.	2	0.47
		Odonata		
		Zygoptera		
		Argia sp.	1	0.23
		Neuroptera		
		Corydalus sp.	4	0.94
		Coleoptera		
		Berosus sp.	1	0.23
		Dineutus sp.	1	0.23
		Peltodytes sp.	1	0.23
		Stenelmis sp.	1	0.23
		Trichoptera		
		Chimarra sp.	2	0.47
		Cheumatopsyche sp.	188	44.03
		Hydropsyche sp.	1	0.23
		Diptera		
		Tendipedidae		
		Chironomus sp.	99	23.20
		Cryptochironomus sp.	1	0.23
		Glyptotendipes sp.	14	3.28
		Polypedilum sp.	75	17.56
		Procladius sp.	1	0.23
		Simuliidae		
		Simulium sp.	17	3.98
		Anthomyiidae		
		Limnophora sp.	1	0.23

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Middle Creek (Cont'd)	MID-001	Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	2	0.47
		Physa sp.	1	0.23
		Pelecypoda		
		Sphaerium sp.	10	2.35
		Total Number of Organisms	427	
Penns Creek	PEN-000	Ephemeroptera		
		Hexagenia sp.	x	
		Stenonema sp.	x	
		Tricorythodes sp.	1	16.67
		Odonata		
		Zygoptera		
		Argia sp.	3	49.99
		Ischnura sp.	x	
		Neuroptera		
		Sialis sp.	1	16.67
		Diptera		
		Tendipedidae		
		Chironomus sp.	x	
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	16.67
		Physa sp.	x	
		Total Number of Organisms	6	
Susquehanna River at McKee Half Falls (W. B.)	SUQ-106	Ephemeroptera		
		Stenonema sp.	1	0.19
		Odonata		
		Zygoptera		
		Argia sp.	1	0.19

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Susquehanna River at McKee Half Falls (W. B.) (Cont'd)	SUQ-106	Plecoptera		
		Acroneuria sp.	1	0.19
		Neuroptera		
		Corydalus sp.	1	0.19
		Trichoptera		
		Hydropsyche sp.	488	93.85
		Macronemum sp.	1	0.19
		Diptera		
		Tendipedidae		
		Metriocnemus sp.	1	0.19
		Pentaneura sp.	24	4.62
		Mollusca		
		Gastropoda		
		Pulmonata		
		Gyraulus sp.	1	0.19
		Physa sp.	1	0.19
		Total Number of Organisms	520	
Susquehanna River at New Buffalo (W. B.)	SUQ-089	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	8	1.65
		Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	1	0.21
		Ephemeroptera		
		Stenonema sp.	8	1.65
		Coleoptera		
		Stenelmis sp.	8	1.65
		Trichoptera		
		Hydropsyche sp.	424	87.42

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Susquehanna River at New Buffalo (W. B.) (Cont'd)	SUQ-089	Diptera		
		Tendipedidae		
		Metriocnemus sp.	8	1.65
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Pleurocerca sp.	1	0.21
		Pulmonata		
		Ferrissia sp.	24	4.93
		Physa sp.	1	0.21
		Pelecypoda		
		Elliptio sp.	1	0.21
		Sphaerium sp.	1	0.21
		Total Number of Organisms	485	
Little Juniata River	LJU-127	Oligochaeta		
		Tubificidae		
		Tubifex sp.	1	100.00
		Total Number of Organisms	1	
Little Juniata River	LJU-122	Oligochaeta		
		Tubificidae		
		Tubifex sp.	1	25.00
		Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	1	25.00
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	25.00
		Physa sp.	1	25.00
		Total Number of Organisms	4	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Little Juniata River	LJU-118	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	3	15.79
		Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	1	5.26
		Ephemeroptera		
		Baetis sp.	8	42.10
		Diptera		
		Diamesinae	5	26.32
		Mollusca		
		Gastropoda		
		Pulmonata		
		Gyraulus sp.	1	5.26
		Physa sp.	1	5.26
		Total Number of Organisms	19	
South Bald Eagle Creek	SBE-003	Oligochaeta		
		Naididae		
		Nais sp.	1	0.38
		Ephemeroptera		
		Heptagenia sp.	11	4.18
		Isonychia sp.	1	0.38
		Paraleptophlebia sp.	1	0.38
		Odonata		
		Anisoptera		
		Boyeria sp.	1	0.38
		Plecoptera		
		Acroneuria sp.	5	1.90
		Trichoptera		
		Hydropsyche sp.	18	6.85
		Wormaldia sp.	1	0.38

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
South Bald Eagle Creek (Cont'd)	SBE-003	Diptera		
		Tendipedidae		
		Polypedilum sp.	224	85.17
		Total Number of Organisms	263	
South Bald Eagle Creek	SBE-000	Diptera		
		Tendipedidae		
		Pentaneura sp.	1	50.00
		Mollusca		
		Gastropoda		
		Pulmonata		
		Physa sp.	1	50.00
		Total Number of Organisms	2	
Little Juniata River	LJU-108	Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	50.00
		Physa sp.	1	50.00
		Total Number of Organisms	2	
Spruce Creek	SPR-000	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	24	18.90
		Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	2	1.57
		Tubifex sp.	1	0.79

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Spruce Creek (Cont'd)	SPR-000	Crustacea		
		Malacostraca		
		Amphipoda		
		Gammarus sp.	1	0.79
		Decapoda		
		Cambarus sp.	1	0.79
		Ephemeroptera		
		Baetis sp.	1	0.79
		Caenis sp.	1	0.79
		Stenonema sp.	30	23.62
		Plecoptera		
		Acroneuria sp.	2	1.57
		Neuroptera		
		Sialis sp.	1	0.79
		Coleoptera		
		Psephenus sp.	22	17.30
		Stenelmis sp.	18	14.20
		Trichoptera		
		Hydropsyche sp.	14	11.02
		Diptera		
		Simuliidae		
		Simulium sp.	1	0.79
		Tipulidae		
		Antocha sp.	1	0.79
		Tendipedidae		
		Tanytarsus sp.	2	1.57
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	0.79
		Gyraulus sp.	1	0.79
		Pelecypoda		
		Sphaerium sp.	3	2.36
		Total Number of Organisms	127	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Frankstown Branch	FBJ-039	Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	1	0.85
		Ephemeroptera		
		Baetis sp.	2	1.70
		Isonychia sp.	1	0.85
		Stenonema sp.	1	0.85
		Coleoptera		
		Psephenus sp.	40	33.90
		Stenelmis sp.	4	3.39
		Trichoptera		
		Hydropsyche sp.	69	58.47
		Total Number of Organisms	118	
Frankstown Branch	FBJ-038	Oligochaeta		
		Naididae		
		Nais sp.	x	
		Hirudinea		
		Glossiphonia sp.	1	0.19
		Crustacea		
		Malacostraca		
		Amphipoda		
		Gammarus sp.	x	
		Neuroptera		
		Sialis sp.	x	
		Coleoptera		
		Dytiscus sp.	x	
		Diptera		
		Tendipedidae		
		Chironomus riparius	531	99.81

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Frankstown Branch (Cont'd)	FBJ-038	Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	x	
		Physa sp.	x	
		Total Number of Organisms	532	
Frankstown Branch	FJB-021	Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	1	0.11
		Tubifex sp.	395	44.94
		Hirudinea		
		Glossiphonia sp.	10	1.14
		Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	1	0.11
		Amphipoda		
		Gammarus sp.	1	0.11
		Decapoda		
		Cambarus sp.	1	0.11
		Diptera		
		Tendipedidae		
		Chironomus riparius	1	0.11
		Mollusca		
		Gastropoda		
		Pulmonata		
		Physa sp.	1	0.11
		Pelecypoda		
		Sphaerium sp.	468	53.25
		Total Number of Organisms	879	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Frankstown Branch	FBJ-016	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	12.50
		Hirudinea		
		Erpobdella sp.	1	12.50
		Glossiphonia sp.	1	12.50
		Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	1	12.50
		Amphipoda		
		Gammarus sp.	1	12.50
		Decapoda		
		Cambarus sp.	1	12.50
		Diptera		
		Tendipedidae		
		Polypedilum sp.	1	12.50
		Mollusca		
		Gastropoda		
		Pulmonata		
		Physa sp.	1	12.50
		Total Number of Organisms	8	
Frankstown Branch	FBJ-004	Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	1	2.17
		Tubifex sp.	9	19.57

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Frankstown Branch (Cont'd)	FBJ-004	Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	1	2.17
		Amphipoda		
		Gammarus sp.	18	39.14
		Decapoda		
		Cambarus sp.	1	2.17
		Ephemeroptera		
		Baetis sp.	1	2.17
		Coleoptera		
		Stenelmis sp.	1	2.17
		Diptera		
		Tendipedidae		
		Polypedilum sp.	10	21.74
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	2.17
		Physa sp.	1	2.17
		Prosobranchia		
		Pleurocerca sp.	1	2.17
		Pelecypoda		
		Sphaerium sp.	1	2.17
		Total Number of Organisms	46	
Juniata River	JUN-094	Hirudinea		
		Glossiphonia sp.	3	5.17
		Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	1	1.73

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Juniata River (Cont'd)	JUN-094	Diptera		
		Tendipedidae		
		Polypedilum sp.	42	72.41
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Pleurocerca sp.	1	1.73
		Pulmonata		
		Ferrissia sp.	10	17.30
		Physa sp.	1	1.73
		Total Number of Organisms	58	
Raystown Branch	RBJ-043	Oligochaeta		
		Tubificidae		
		Tubifex sp.	22	45.84
		Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	1	2.08
		Ephemeroptera		
		Stenonema sp.	1	2.08
		Odonata		
		Zygoptera		
		Argia sp.	1	2.08
		Neuroptera		
		Chauliodes sp.	1	2.08
		Coleoptera		
		Psephenus sp.	1	2.08
		Stenelmis sp.	1	2.08
		Trichoptera		
		Hydropsyche sp.	1	2.08
		Macronemum sp.	1	2.08

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Raystown Branch (Cont'd)	RBJ-043	Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	12	25.00
		Pulmonata		
		Gyraulus sp.	1	2.08
		Pelecypoda		
		Elliptio sp.	1	2.08
		Sphaerium sp.	4	8.34
		Total Number of Organisms	48	
Raystown Branch	RBJ-024	Ephemeroptera		
		Stenonema sp.	2	3.70
		Odonata		
		Zygoptera		
		Argia sp.	1	1.85
		Plecoptera		
		Acroneuria sp.	1	1.85
		Coleoptera		
		Psephenus sp.	1	1.85
		Stenelmis sp.	1	1.85
		Trichoptera		
		Cheumatopsyche sp.	1	1.85
		Hydropsyche sp.	5	9.27
		Wormaldia sp.	2	3.70
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	22	40.75
		Pleurocerca sp.	15	27.78
		Pulmonata		
		Physa sp.	1	1.85
		Pelecypoda		
		Elliptio sp.	1	1.85
		Sphaerium sp.	1	1.85
		Total Number of Organisms	54	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Raystown Branch	RBJ-009	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	104	43.16
		Oligochaeta		
		Tubificidae		
		Tubifex sp.	1	0.41
		Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	1	0.41
		Amphipoda		
		Gammarus sp.	1	0.41
		Ephemeroptera		
		Stenonema sp.	2	0.83
		Neuroptera		
		Chauliodes sp.	1	0.41
		Trichoptera		
		Hydropsyche sp.	114	47.31
		Diptera		
		Tendipedidae		
		Metriocnemus sp.	16	6.64
		Mollusca		
		Gastropoda		
		Pulmonata		
		Lymnaea sp.	1	0.41
		Total Number of Organisms	241	
Juniata River	JUN-082	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	1.72

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Juniata River (Cont'd)	JUN-082	Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	1	1.72
		Ephemeroptera		
		Baetis sp.	1	1.72
		Stenonema sp.	1	1.72
		Odonata		
		Zygoptera		
		Argia sp.	1	1.72
		Coleoptera		
		Psephenus sp.	1	1.72
		Trichoptera		
		Hydropsyche sp.	1	1.72
		Diptera		
		Tendipedidae		
		Polypedilum sp.	4	6.91
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	1	1.72
		Pleurocerca sp.	39	67.31
		Pulmonata		
		Ferrissia sp.	1	1.72
		Physa sp.	1	1.72
		Pelecypoda		
		Sphaerium sp.	5	8.57
		Total Number of Organisms	58	
Aughwick Creek	AUG-030	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	1.85

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Aughwick Creek (Cont'd)	AUG-030	Ephemeroptera		
		Isonychia sp.	7	12.97
		Stenonema sp.	1	1.85
		Odonata		
		Zygoptera		
		Enallagma sp.	1	1.85
		Plecoptera		
		Acroneuria sp.	1	1.85
		Neuroptera		
		Chauliodes sp.	1	1.85
		Coleoptera		
		Psephenus sp.	1	1.85
		Trichoptera		
		Chimarra sp.	3	5.55
		Hydropsyche sp.	24	44.95
		Diptera		
		Diamesinae	8	14.82
		Simuliidae		
		Simulium sp.	2	3.70
		Mollusca		
		Gastropoda		
		Pulmonata		
		Gyraulus sp.	3	3.70
		Physa sp.	1	1.85
		Pelecypoda		
		Sphaerium sp.	1	1.85
		Total Number of Organisms	54	
Aughwick Creek	AUG-005	Ephemeroptera		
		Baetis sp.	1	1.33
		Isonychia sp.	1	1.33

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Aughwick Creek (Cont'd)	AUG-005	Odonata		
		Anisoptera		
		Hagenius sp.	1	1.33
		Zygoptera		
		Ischnura sp.	1	1.33
		Neuroptera		
		Chauliodes sp.	1	1.33
		Coleoptera		
		Gyrinus sp.	1	1.33
		Trichoptera		
		Chimarra sp.	1	1.33
		Limnephilus sp.	1	1.33
		Diptera		
		Diamesinae	16	21.36
		Simuliidae		
		Simulium sp.	1	1.33
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	36	48.02
		Pulmonata		
		Gyraulus sp.	12	15.98
		Pelecypoda		
		Sphaerium sp.	2	2.67
		Total Number of Organisms	75	
Juniata River	JUN-052	Oligochaeta		
		Tubificidae		
		Tubifex sp.	1	0.98
		Ephemeroptera		
		Heptagenia sp.	9	8.83
		Isonychia sp.	2	1.96
		Stenonema sp.	1	0.98

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Juniata River (Cont'd)	JUN-052	Coleoptera		
		Stenelmis sp.	2	1.96
		Trichoptera		
		Hydropsyche sp.	10	9.80
		Lepidoptera		
		Elophila sp.	10	9.80
		Diptera		
		Tendipedidae		
		Polypedilum sp.	18	17.66
		Simuliidae		
		Simulium sp.	21	20.58
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Pleurocerca sp.	26	25.49
		Pelecypoda		
		Elliptio sp.	1	0.98
		Sphaerium sp.	1	0.98
		Total Number of Organisms	102	
Kishacoquillas Creek	KIS-006	Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	11	14.28
		Crustacea		
		Malacostraca		
		Amphipoda		
		Hyalella sp.	16	20.78
		Ephemeroptera		
		Heptagenia sp.	2	2.60
		Isonychia sp.	1	1.30
		Stenonema sp.	7	9.09
		Coleoptera		
		Stenelmis sp.	2	2.60

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Kishacoquillas Creek (Cont'd)	KIS-006	Diptera		
		Tendipedidae		
		Brillia sp.	1	1.30
		Polypedilum sp.	17	22.08
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	3	3.89
		Total Number of Organisms	77	
Kishacoquillas Creek	KIS-000	Oligochaeta		
		Tubificidae		
		Tubifex sp.	83	17.62
		Crustacea		
		Malacostraca		
		Decapoda		
		Cambarus sp.	1	0.21
		Diptera		
		Diamesinae	374	79.41
		Tendipedidae		
		Metriocnemus sp.	1	0.21
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	0.21
		Gyraulus sp.	1	0.21
		Physa sp.	10	2.13
		Total Number of Organisms	471	
Juniata River	JUN-012	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	4	1.81

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Juniata River (Cont'd)	JUN-012	Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	4	1.81
		Tubifex sp.	2	0.90
		Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	3	1.36
		Ephemeroptera		
		Isonychia sp.	4	1.81
		Stenonema sp.	7	3.17
		Odonata		
		Zygoptera		
		Argia sp.	1	0.45
		Neuroptera		
		Chauliodes sp.	1	0.45
		Corydalus sp.	3	1.36
		Coleoptera		
		Psephenus sp.	1	0.45
		Stenelmis sp.	27	12.22
		Trichoptera		
		Hydropsyche sp.	104	47.06
		Lepidoptera		
		Elophila sp.	1	0.45
		Diptera		
		Tendipedidae		
		Polypedilum sp.	26	11.77
		Pseudochironomus sp.	1	0.45
		Simuliidae		
		Simulium sp.	1	0.45

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Juniata River (Cont'd)	JUN-012	Mollusca		
		Gastropoda		
		Prosobranchia		
		Pleurocerca sp.	4	1.81
		Pulmonata		
		Ferrissia sp.	21	9.54
		Physa sp.	1	0.45
		Pelecypoda		
		Sphaerium sp.	5	2.23
		Total Number of Organisms	221	
Susquehanna River above Harrisburg (W. B.)	SUQ-075	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	3	5.77
		Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	1	1.92
		Ephemeroptera		
		Baetis sp.	1	1.92
		Isonychia sp.	1	1.92
		Stenonema sp.	1	1.92
		Odonata		
		Zygoptera		
		Argia sp.	1	1.92
		Plecoptera		
		Acroneuria sp.	1	1.92
		Neuroptera		
		Corydalus sp.	5	9.62
		Trichoptera		
		Hydropsyche sp.	1	1.92

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Susquehanna River above Harrisburg (W. B.) (Cont'd)	SUQ-075	Diptera		
		Tendipedidae		
		Metriocnemus sp.	10	19.24
		Simuliidae		
		Simulium sp.	1	1.92
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Goniobasis sp.	10	19.24
		Pulmonata		
		Ferrissia sp.	1	1.92
		Gyraulus sp.	1	1.92
		Physa sp.	5	9.62
		Pelecypoda		
		Sphaerium sp.	9	17.30
		Total Number of Organisms	52	
Conodoquinet Creek	CDQ-003	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	43	34.68
		Oligochaeta		
		Naididae		
		Nais sp.	4	3.22
		Tubificidae		
		Tubifex sp.	1	0.81
		Crustacea		
		Malacostraca		
		Amphipoda		
		Hyalella sp.	1	0.81
		Ephemeroptera		
		Heptagenia sp.	9	7.25
		Stenonema sp.	1	0.81

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Conodoquinet Creek (Cont'd)	CDQ-003	Odonata		
		Zygoptera		
		Argia sp.	1	0.81
		Plecoptera		
		Taeniopteryx sp.	1	0.81
		Coleoptera		
		Ectopria sp.	1	0.81
		Haliplus sp.	1	0.81
		Psephenus sp.	1	0.81
		Stenelmis sp.	18	14.50
		Trichoptera		
		Hydropsyche sp.	1	0.81
		Lepidoptera		
		Elophila sp.	14	11.29
		Diptera		
		Diamesinae	1	0.81
		Tendipedidae		
		Procladius sp.	3	2.41
		Simuliidae		
		Simulium sp.	1	0.81
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	4	3.22
		Pleurocerca sp.	12	9.68
		Pulmonata		
		Gyraulus sp.	1	0.81
		Physa sp.	4	3.22
		Pelecypoda		
		Elliptio sp.	1	0.81
		Total Number of Organisms	124	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Yellow Breeches Creek	YBE-000	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	8	1.75
		Nemata		
		Nematode	4	0.88
		Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	8	1.75
		Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	1	0.22
		Amphipoda		
		Gammarus sp.	1	0.22
		Decapoda		
		Cambarus sp.	1	0.22
		Ephemeroptera		
		Isonychia sp.	1	0.22
		Stenonema sp.	1	0.22
		Plecoptera		
		Acroneuria sp.	1	0.22
		Neuroptera		
		Corydalus sp.	1	0.22
		Coleoptera		
		Psephenus sp.	16	3.51
		Trichoptera		
		Hydropsyche sp.	131	28.73
		Diptera		
		Tendipedidae		
		Pseudochironomus sp.	1	0.22
		Tendipes sp.	144	31.58

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Yellow Breeches Creek (Cont'd)	YBE-000	Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	136	29.83
		Physa sp.	1	0.22
		Total Number of Organisms	456	
Susquehanna River at Pennsylvania Turnpike Bridge (W. B.)	SUQ-064	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	24	5.21
		Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	1	0.22
		Naididae		
		Nais sp.	8	1.73
		Ephemeroptera		
		Isonychia sp.	8	1.73
		Stenonema sp.	8	1.73
		Odonata		
		Zygoptera		
		Argia sp.	1	0.22
		Neuroptera		
		Corydalus sp.	1	0.22
		Trichoptera		
		Hydropsyche sp.	240	52.06
		Macronemum sp.	2	0.43
		Diptera		
		Tendipedidae		
		Tendipes sp.	112	24.29
		Simuliidae		
		Simulium sp.	1	0.22

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Susquehanna River at Pennsylvania Turnpike Bridge (W. B.) (Cont'd)	SUQ-064	Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	1	0.22
		Pleurocerca sp.	1	0.22
		Pulmonata		
		Ferrissia sp.	56	12.14
		Physa sp.	2	0.43
		Pelecypoda		
		Elliptio sp.	1	0.22
		Sphaerium sp.	1	0.22
		Total Number of Organisms	461	
West Conewago Creek	WCN-007	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	1.89
		Ephemeroptera		
		Caenis sp.	1	1.89
		Isonychia sp.	2	3.77
		Stenonema sp.	2	3.77
		Odonata		
		Zygoptera		
		Argia sp.	1	1.89
		Neuroptera		
		Corydalus sp.	2	3.77
		Coleoptera		
		Pesphenus sp.	3	5.66
		Stenelmis sp.	4	7.54
		Trichoptera		
		Hydropsyche sp.	23	43.40

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
West Conewago Creek (Cont'd)	WCN-007	Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	1	1.89
		Pelecypoda		
		Elliptio sp.	1	1.89
		Sphaerium sp.	12	22.64
		Total Number of Organisms	53	
West Branch Codorus Creek	WCO-027	Oligochaeta		
		Tubificidae		
		Limnodrilus sp.	1	0.36
		Tubifex sp.	7	2.55
		Crustacea		
		Malacostraca		
		Isopoda		
		Asellus sp.	1	0.36
		Decapoda		
		Cambarus sp.	1	0.36
		Ephemeroptera		
		Hexagenia sp.	1	0.36
		Isonychia sp.	4	1.45
		Stenonema sp.	21	7.65
		Odonata		
		Anisoptera		
		Boyeria sp.	1	0.36
		Neuroptera		
		Sialis sp.	1	0.36
		Coleoptera		
		Stenelmis sp.	1	0.36
		Trichoptera		
		Hydropsyche sp.	224	81.46
		Neophylax sp.	1	0.36

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
West Branch Codorus Creek (Cont'd)	WCO-027	Diptera		
		Diamesinae	1	0.36
		Tendipedidae		
		Polypedilum sp.	1	0.36
		Tabanidae		
		Tabanus sp.	1	0.36
		Mollusca		
		Gastropoda		
		Pulmonata		
		Ferrissia sp.	6	2.18
		Gyraulus sp.	1	0.36
		Physa sp.	1	0.36
		Total Number of Organisms	275	
West Branch Codorus Creek	WCO-024	Oligochaeta		
		Tubificidae		
		Tubifex sp.	73	11.30
		Trichoptera		
		Hydropsyche sp.	1	0.15
		Diptera		
		Tendipedidae		
		Polypedilum sp.	62	9.60
		Mollusca		
		Gastropoda		
		Pulmonata		
		Gyraulus sp.	125	19.38
		Physa sp.	385	59.57
		Total Number of Organisms	646	
West Branch Codorus Creek	WCO-018	Oligochaeta		
		Tubificidae		
		Tubifex sp.	1,945	68.39

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
West Branch Codorus Creek (Cont'd)	WCO-018	Coleoptera		
		Hydroporus sp.	1	0.03
		Diptera		
		Tendipedidae		
		Metriocnemus sp.	3	0.11
		Mollusca		
		Gastropoda		
		Pulmonata		
		Physa sp.	895	31.47
		Total Number of Organisms	2,844	
West Branch Codorus Creek	WCO-015	Mollusca		
		Gastropoda		
		Pulmonata		
		Physa sp.	1	100.00
		Total Number of Organisms	1	
South Branch Codorus Creek	SCO-000	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	32	14.35
		Oligochaeta		
		Naididae		
		Nais sp.	1	0.45
		Hirudinea		
		Erpobdella sp.	1	0.45
		Ephemeroptera		
		Heptagenia sp.	1	0.45
		Isonychia sp.	16	7.18
		Stenonema sp.	8	3.58
		Coleoptera		
		Psephenus sp.	1	0.45
		Stenelmis sp.	1	0.45

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
South Branch Codorus Creek (Cont'd)	SCO-000	Trichoptera		
		Hydropsyche sp.	120	53.81
		Neophylax sp.	1	0.45
		Diptera		
		Diamesinae	32	14.35
		Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	8	3.58
		Pulmonata		
		Ferrissia sp.	1	0.45
		Total Number of Organisms	223	
Codorus Creek	COR-014	Oligochaeta		
		Tubificidae		
		Tubifex sp.	5	14.29
		Odonata		
		Anisoptera		
		Macromia sp.	1	2.86
		Trichoptera		
		Hydropsyche sp.	15	42.91
		Neophylax sp.	1	2.86
		Diptera		
		Diamesinae	3	8.57
		Tendipedidae		
		Cryptochironomus sp.	1	2.86
		Mollusca		
		Gastropoda		
		Pulmonata		
		Physa sp.	9	25.71
		Total Number of Organisms	35	

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Codorus Creek	COR-006	Oligochaeta		
		Tubificidae		
		Tubifex sp.	1,191	99.59
		Coleoptera		
		Gyrinus sp.	1	0.08
		Trichoptera		
		Hydropsyche sp.	3	0.25
		Diptera		
		Tendipedidae		
		Tendipes sp.	1	0.08
		Total Number of Organisms	1,196	
Codorus Creek	COR-001	Oligochaeta		
		Tubificidae		
		Tubifex sp.	73	16.74
		Hirudinea		
		Erpobdella sp.	73	16.74
		Glossiphonia sp.	1	0.23
		Odonata		
		Anisoptera		
		Boyeria sp.	1	0.23
		Libellula sp.	1	0.23
		Zygoptera		
		Ischnura sp.	1	0.23
		Neuroptera		
		Sialis sp.	1	0.23
		Coleoptera		
		Ilybius sp.	1	0.23
		Peltodytes sp.	1	0.23
		Diptera		
		Tendipedidae		
		Polypedilum sp.	1	0.23
		Simuliidae		
		Simulium sp.	1	0.23

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Codorus Creek (Cont'd)	COR-001	Mollusca		
		Gastropoda		
		Pulmonata		
		Gyraulus sp.	11	2.53
		Physa sp.	270	61.92
		Total Number of Organisms	436	
Susquehanna River at Wrightsville (W. B.)	SUQ-043	Platyhelminthes		
		Turbellaria		
		Tricladia		
		Dugesia sp.	1	0.41
		Crustacea		
		Malacostraca		
		Amphipoda		
		Gammarus sp.	107	43.67
		Ephemeroptera		
		Stenonema sp.	4	1.63
		Odonata		
		Zygoptera		
		Argia sp.	1	0.41
		Trichoptera		
		Hydropsyche sp.	109	44.49
		Lepidoptera		
		Elophila sp.	1	0.41
		Diptera		
		Tendipedidae		
		Cryptochironomus sp.	14	5.71

Station Location	Station Code	Invertebrates Present in Qualitative Sample	Number of Each Organism in Quantitative Sample	Per Cent of Quantitative Sample
Susquehanna River at Wrightsville (W. B.) (Cont'd)	SUQ-043	Mollusca		
		Gastropoda		
		Prosobranchia		
		Lioplax sp.	6	2.45
		Pulmonata		
		Ferrissia sp.	1	0.41
		Pelecypoda		
		Sphaerium sp.	1	0.41
		Total Number of Organisms	245	